Operating Instructions

Pioneer USB D/A Converter (for Windows)

About these Operating Instructions

When a USB cable is used to connect the unit's **USB** port to a computer, audio files located on the computer can be played.
In order to use this function, a dedicated driver (software program) must be installed in the computer. These Operating Instructions contain important information necessary for playing files on the computer, including instructions about how to install the driver and how to perform troubleshooting in event of problems.

Computer Environment

To utilize this driver, your computer must be equipped with a USB port supporting USB Rev2.0 HS.
For information regarding supported computer operating systems and playback software, please consult the Pioneer website (the download page for this driver).

Note

- To play music files from a computer, it is recommended that all computer applications be closed except for the music player application.
- The sampling frequencies and number of quantization bits that can be output by your computer may differ depending on the computer's operating system and the version of playback software used.
- The number of bits shown on the unit's display is not the number of bits of the music file, but the value as set by your computer.

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Installing the driver software

Note

- This driver program is supported for use with Windows Vista, Windows XP, Windows 7, Windows 8 and Windows 8.1 operating systems.

1 Download the driver program.

The driver software can be downloaded from the Pioneer website.

- When downloading the driver program, designate the folder where you wish the program to be saved.
- Depending on the browser program used or its settings, it may not be possible to designate the folder for saving downloads. In this case, the file will be saved to a folder location previously designated by the program.
- The driver program will be downloaded in compressed ZIP format.
  The downloaded compressed file will have a name like "Pioneer_USBDAC_WinDriver_****.zip",
  where "****" will indicate the program's package number.

2 Following completion of the download, decompress the compressed file.

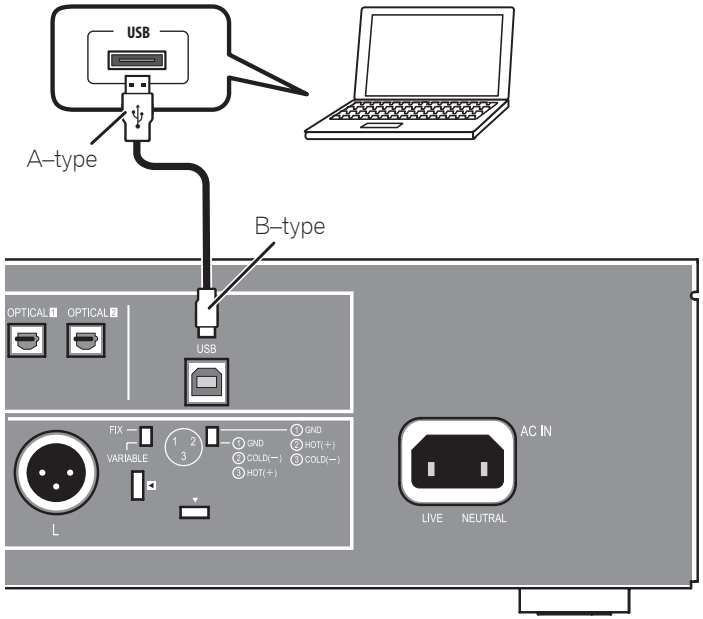
The downloaded file is compressed. Decompress the downloaded file.
After decompression, the folder holding the driver program will be named "Pioneer_USBDAC_WinDriver_****", where "****" will indicate the program's package number.
Once the compressed file is decompressed, the above folder will be displayed. Double click on this folder to display the file "Setup.exe".

- For more information regarding the software used to open the compressed file, please consult your software publisher or computer vendor.

Procedure continues.

3 Use a proper USB cable to connect a computer to a device equipped with USB connector, then turn on the power.

For more information regarding connections, check the Operating Instructions for this device.

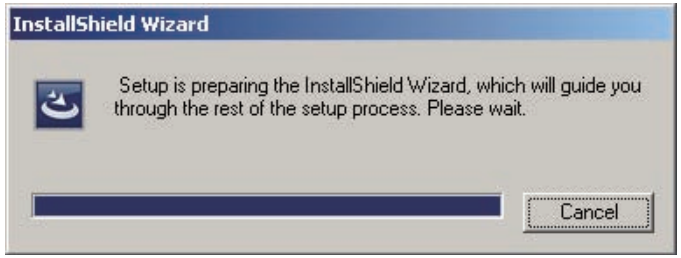


* The illustration may appear differently, depending on the model used.

4 Switch the unit to the input source corresponding to the USB port.

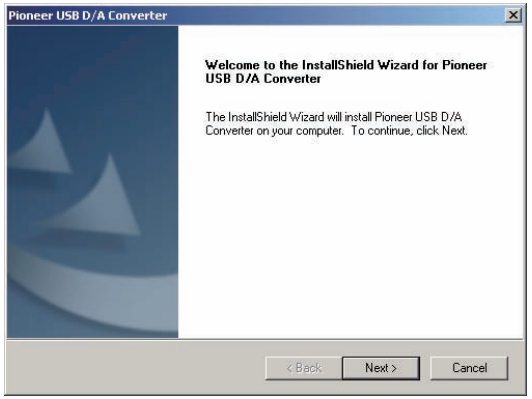
5 In the decompressed folder, double click on “Setup.exe” to execute it.

The InstallShield wizard will appear.

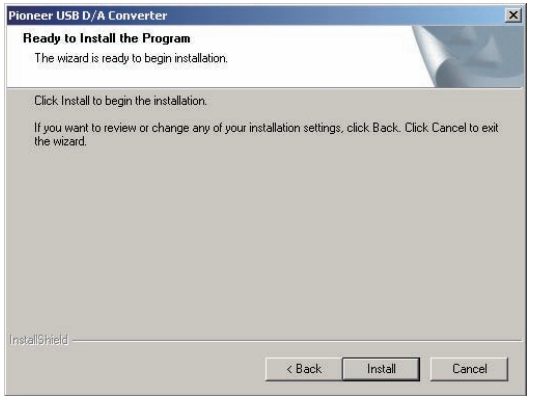

InstallShield Wizard
Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
Cancel

- If an older version of this driver program is found on the computer, the InstallShield wizard will display a “delete” option. In this event, follow the on-screen instructions to delete the older version, then reboot your computer and once again install the new driver program.
- The menu illustrations shown in these Operating Instructions may differ from those actually displayed.

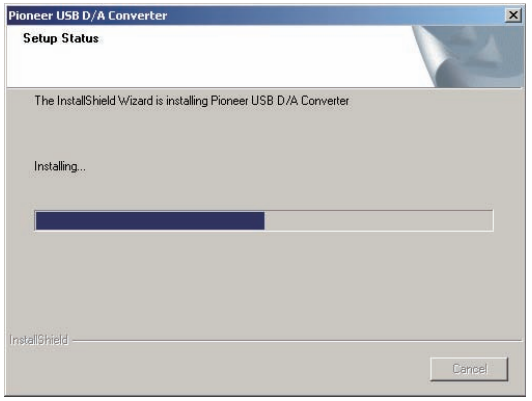
6 Click on [Next].


Pioneer USB D/A Converter
Welcome to the InstallShield Wizard for Pioneer USB D/A Converter
The InstallShield Wizard will install Pioneer USB D/A Converter on your computer. To continue, click Next.
< Back
Next >
Cancel

7 Click on [Install].


Pioneer USB D/A Converter
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

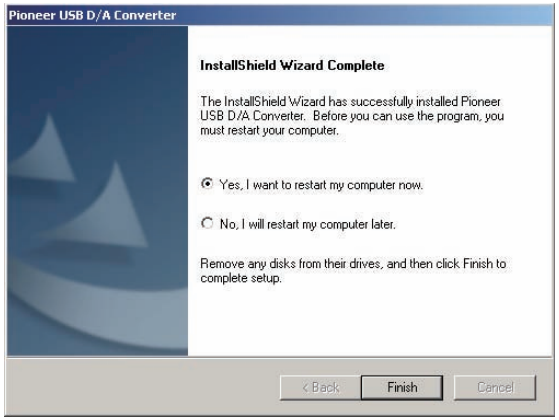
The following screen will appear; wait until the step 8 instructions appear.



If the message “Windows protected your PC” appears, click on “More info” and then press “Run anyway”.

Procedure continues.

8 Click on [Finish].


Pioneer USB D/A Converter
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Pioneer USB D/A Converter. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

The driver installation is completed.

9 Reboot your computer to finalize installation of the driver.

Procedure finished.

To uninstall the driver

If you wish to uninstall (delete) the driver at any time after installing it, perform the following operation on your computer.

1 Click on the [Start] button at lower left of your monitor screen, then click on ([Settings] →) [Control Panel].

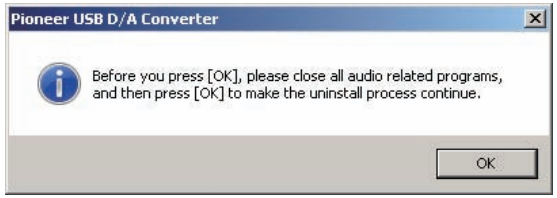
In the case of Windows 8 or Windows 8.1, simultaneously press the [Windows] key and [X] key, then select “Programs and functions”, and proceed to step 3.

2 From the Control Panel menu, click on [Add or Remove Programs].

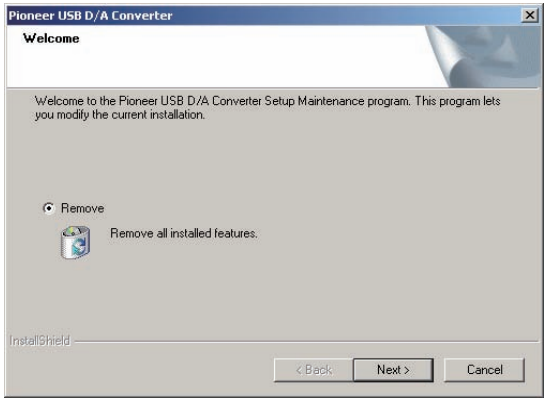
3 Select [Pioneer USB D/A Converter], then click on either [Remove] or [Uninstall].

The uninstaller dialog will appear.

4 Click [OK] and proceed to the uninstall screen.

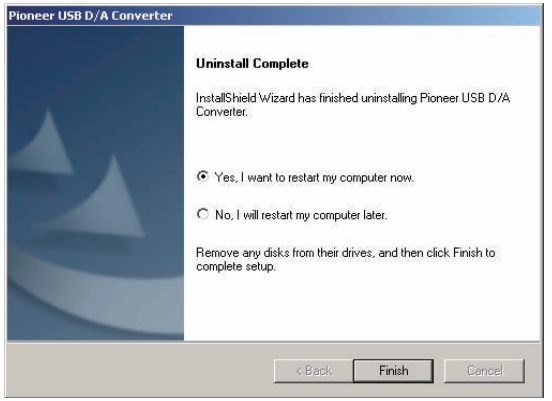

Pioneer USB D/A Converter
Before you press [OK], please close all audio related programs, and then press [OK] to make the uninstall process continue.
OK

5 Click [Next] and proceed to the uninstall execution screen.


Pioneer USB D/A Converter
Welcome
Welcome to the Pioneer USB D/A Converter Setup Maintenance program. This program lets you modify the current installation.
Remove
Remove all installed features.
InstallShield
< Back
Next >
Cancel

6 Click [Next] to execute the uninstall process.

7 Click on [Finish], then reboot your computer.


Pioneer USB D/A Converter
Uninstall Complete
InstallShield Wizard has finished uninstalling Pioneer USB D/A Converter.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

The driver software will be uninstalled.

Procedure finished.

Troubleshooting (Windows XP)

When using Windows Vista, see page 7 ; for Windows 7, see page 11 ; for Windows 8 or Windows 8.1, see page 15.

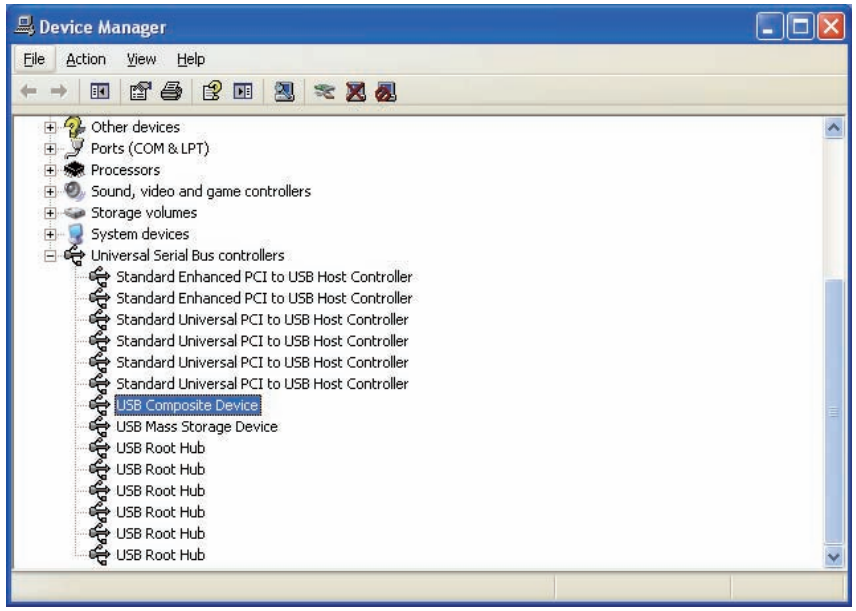
1. No sound

Do not boot your computer's music player program if the power is turned off to the device with the **USB** port, or if the **USB** port has not been selected as the input source.
Boot your computer's music playing program only after switching the input to the **USB** port.
For information about the name of inputs supported by the **USB** port, see the Operating Instructions for this device.

1 Click on [Start] → ([Settings] →) [Control Panel] → [System].

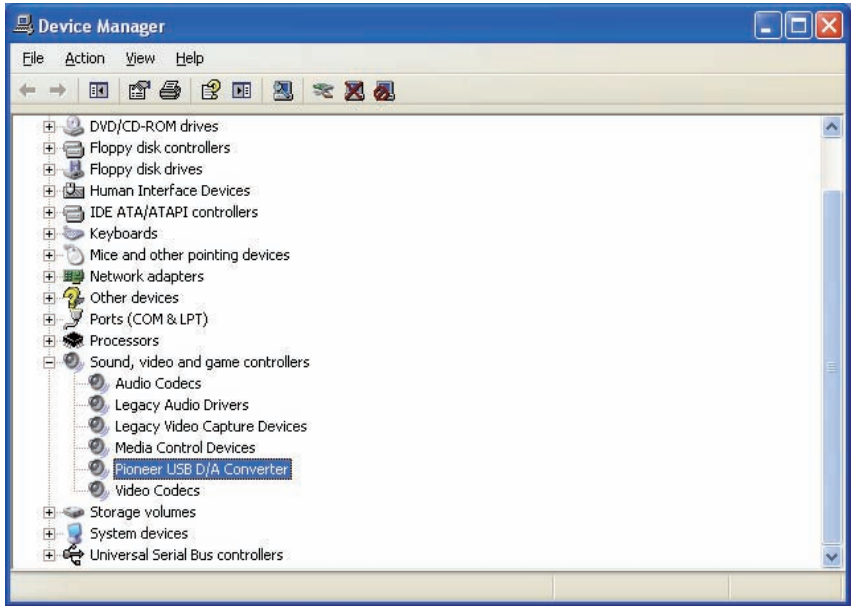
2 Click on the [Hardware] tab then click on [Device Manager].

3 Click on [Universal Serial Bus controllers] and confirm that [USB Composite Device] is listed.


Device Manager
File Action View Help
Other devices
Ports (COM & LPT)
Processors
Sound, video and game controllers
Storage volumes
System devices
Universal Serial Bus controllers
Standard Enhanced PCI to USB Host Controller
Standard Enhanced PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
Standard Universal PCI to USB Host Controller
USB Composite Device
USB Mass Storage Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub

Procedure continues.

4 Click on [Sound, video and game controllers] and confirm that [Pioneer USB D/A Converter] is listed.



If the [Pioneer USB D/A Converter] does not appear, confirm that the **USB** port has been selected as input source. Then try reconnecting the cable or turning the power off and then on again; when this is done, the [Pioneer USB D/A Converter] should be recognized.

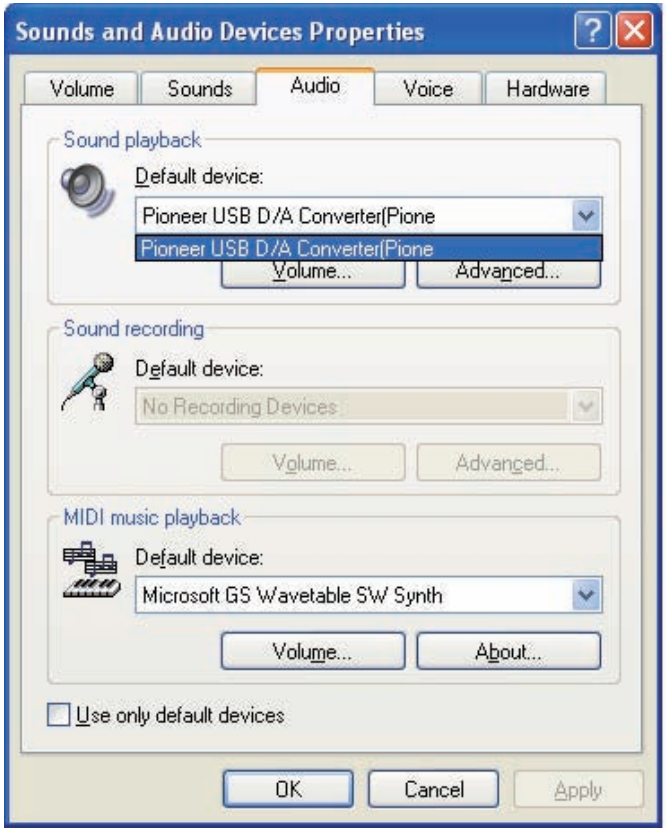
5 Click on [Start] → ([Settings] →) [Control Panel] → [Sound, Speech, and Audio Devices] → [Sounds and Audio Devices].

6 Open the sound and audio Properties.

Procedure continues.

7 Click on the [Audio] tab, then confirm that [Pioneer USB D/A Converter] is listed as the [Default device] for [Sound playback].

→ If another device has been selected, open the drop-down menu and select [Pioneer USB D/A Converter], then click on [Apply] to change the selection.



8 To enable the new setting, reboot your computer.

9 Confirm that your media player's sound volume is set to Maximum.

In the event your media player requires an output plugin setting, confirm that [Pioneer USB D/A Converter] is selected.

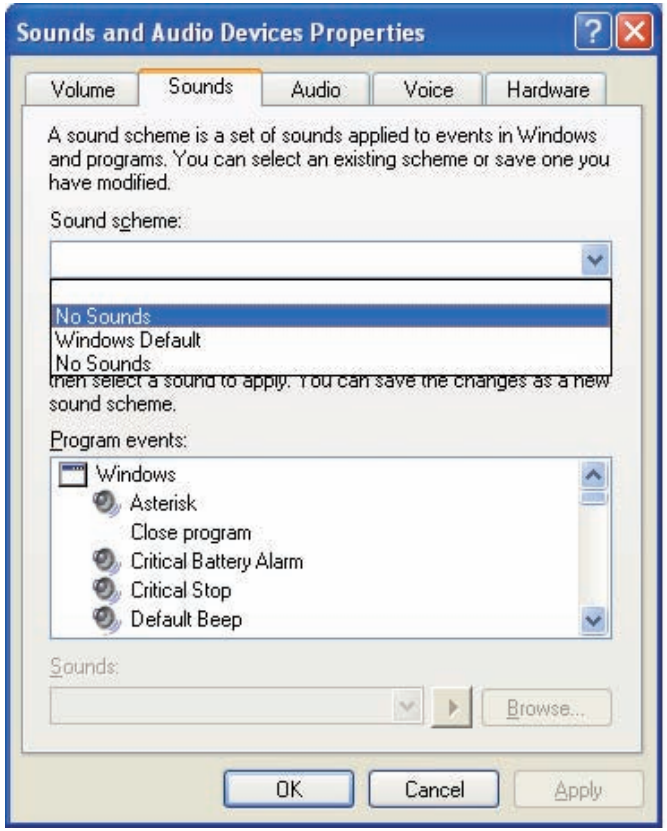
Procedure finished.

2. To disable the operating system's sound scheme

Under default OS settings, computer events may be accompanied by audio signals and beeps that are audible through the speakers attached to the device. In the event you do not wish to hear such non-music signals, follow the instructions listed below:

1 Click [Start] → [Control Panel] → [Sounds and Audio Devices].

2 Click on the [Sounds] tab, and for the [Sound scheme], select [No Sounds], then click on [Apply].



Procedure finished.

Troubleshooting (Windows Vista)

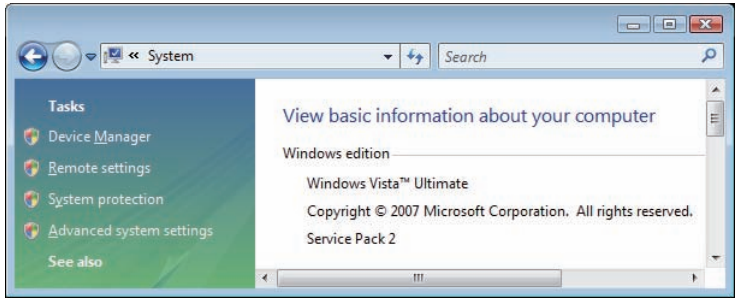
When using Windows XP, see page 5 ; for Windows 7, see page 11 ; for Windows 8 or Windows 8.1, see page 15.

1. No sound

Do not boot your computer's music player program if the power is turned off to the device with the **USB** port, or if the **USB** port has not been selected as the input source.
Boot your computer's music playing program only after switching the input to the **USB** port.
For information about the name of inputs supported by the **USB** port, see the Operating Instructions for this device.

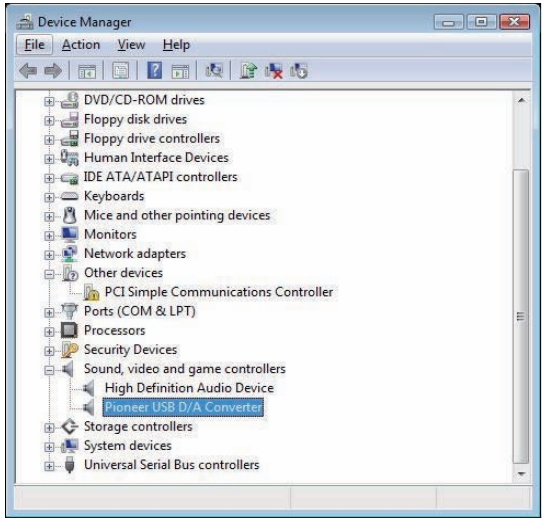
1 Click on [Start] → [Control Panel] → [System and Maintenance] → [System].

2 From the [Tasks] list, click on [Device Manager].



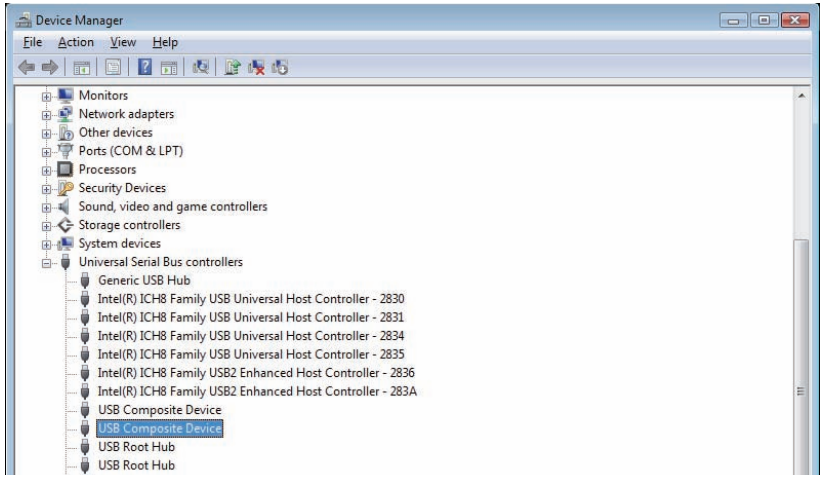
Procedure continues.

3 Click on [Sound, video and game controllers] and confirm that [Pioneer USB D/A Converter] is listed.



If the [Pioneer USB D/A Converter] does not appear, confirm that the **USB** port has been selected as input source. Then try reconnecting the cable or turning the power off and then on again; when this is done, the [Pioneer USB D/A Converter] should be recognized.

4 Click on [Universal Serial Bus controllers] and confirm that [USB Composite Device] is listed.

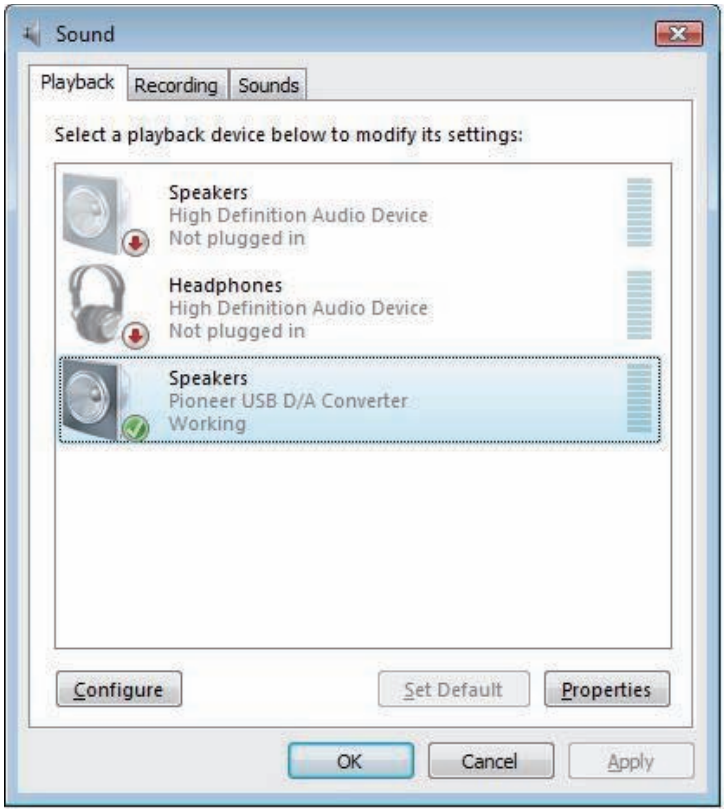

Device Manager
File Action View Help
Monitors
Network adapters
Other devices
Ports (COM & LPT)
Processors
Security Devices
Sound, video and game controllers
Storage controllers
System devices
Universal Serial Bus controllers
Generic USB Hub
Intel(R) ICH8 Family USB Universal Host Controller - 2830
Intel(R) ICH8 Family USB Universal Host Controller - 2831
Intel(R) ICH8 Family USB Universal Host Controller - 2834
Intel(R) ICH8 Family USB Universal Host Controller - 2835
Intel(R) ICH8 Family USB2 Enhanced Host Controller - 2836
Intel(R) ICH8 Family USB2 Enhanced Host Controller - 283A
USB Composite Device
USB Composite Device
USB Root Hub
USB Root Hub

Procedure continues.

5 **Click on [Start] → [Control Panel] → [Hardware and Sound] → [Sound].**

6 **Under the [Playback] tab, confirm that for [Speakers], [Pioneer USB D/A Converter] is checked as the default device.**

→ If another device has been selected, select [Pioneer USB D/A Converter], and click to [Set Default].

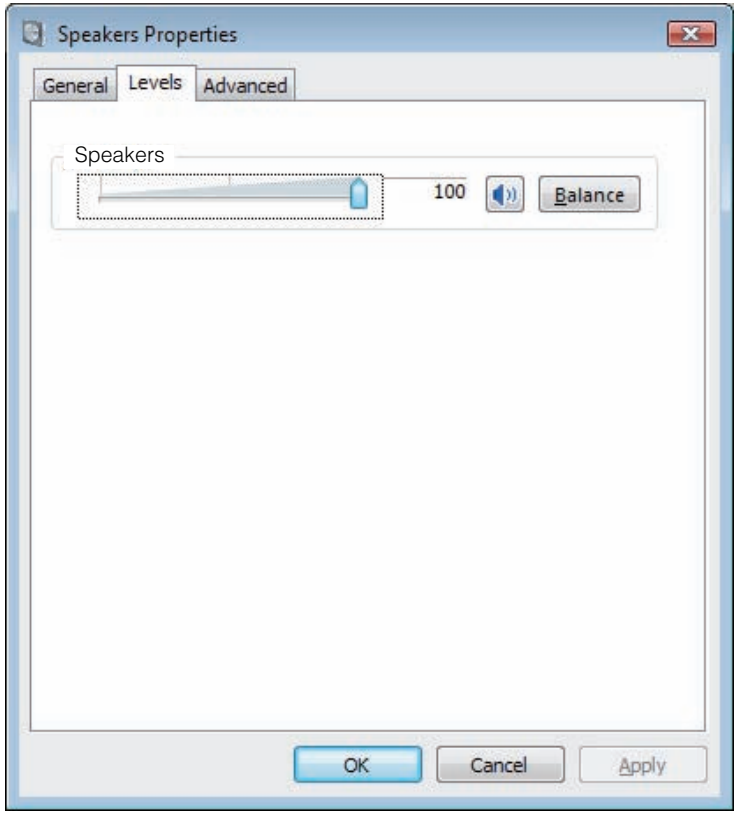


7 **Double click on [Speakers] ([Pioneer USB D/A Converter]), and display its Properties.**

Procedure continues.

8 **Under the [Levels] tab, set the [Speakers] level to maximum.**

If the Speaker Mute indicator (at the left side of the Balance button) is lighted, click it to turn it off.



9 **Confirm that your media player's sound volume is set to Maximum.**

In the event your media player requires an output plugin setting, confirm that [Pioneer USB D/A Converter] is selected.

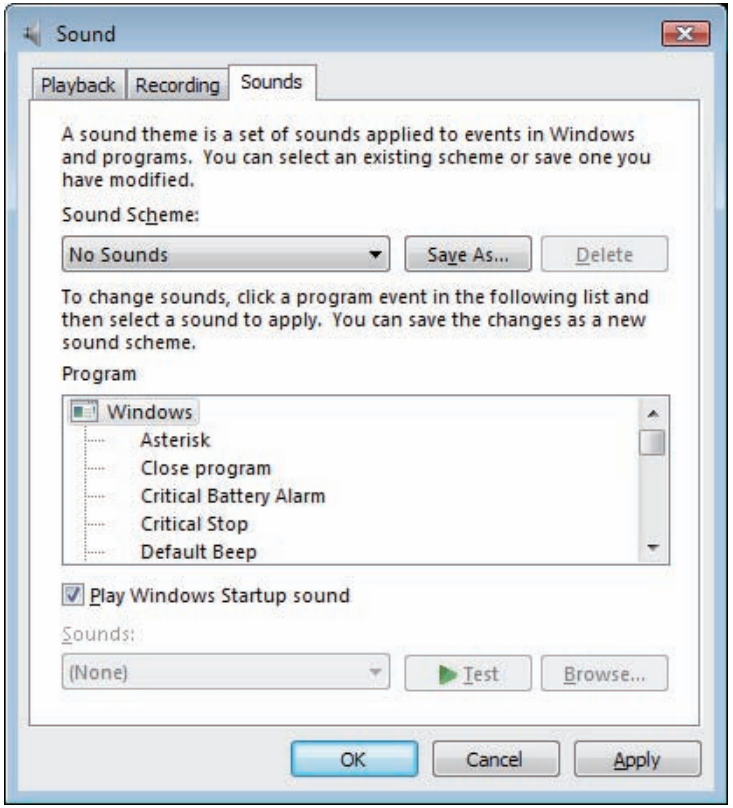
Procedure finished.

2. To disable the operating system's sound scheme

Under default OS settings, computer events may be accompanied by audio signals and beeps that are audible through the speakers attached to the device. In the event you do not wish to hear such non-music signals, follow the instructions listed below:

1 **Click [Start] → [Control Panel] → [Hardware and Sound] → [Sound].**

2 **Click on the [Sounds] tab, and for the [Sound scheme], select [No Sounds], then click on [Apply].**



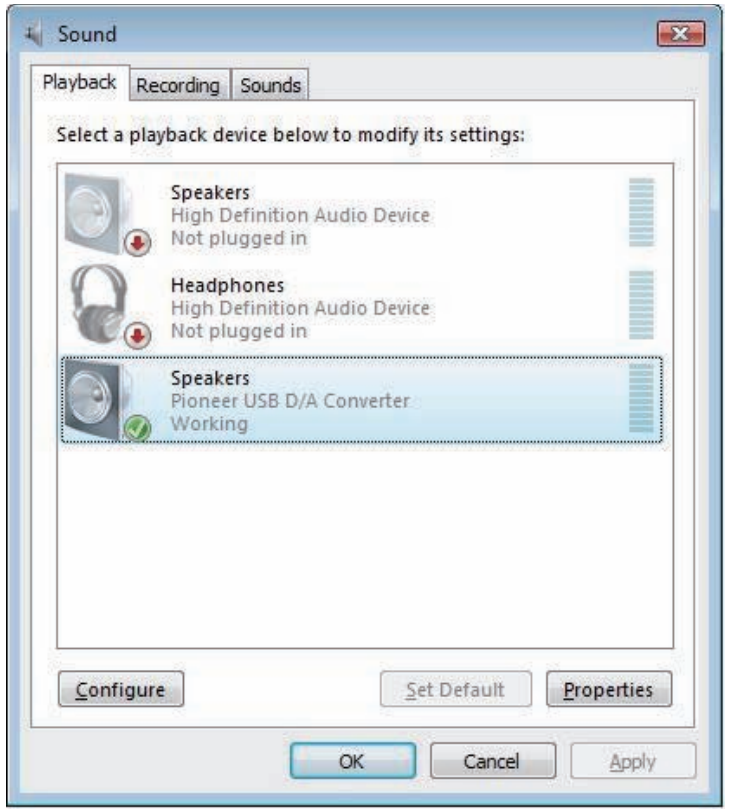
Procedure finished.

3. To set the sampling frequency for audio data output from your computer

By synchronizing the sampling frequency of playback files with the transmission sampling rate, sound can be transmitted without the need for frequency conversion.
When a high sampling frequency is set on a computer with inadequate processing capacity, audio playback may be disrupted. In this event, the bit rate and frequency should be set to low values such as 2-channel, 24-bit, 44100 Hz.

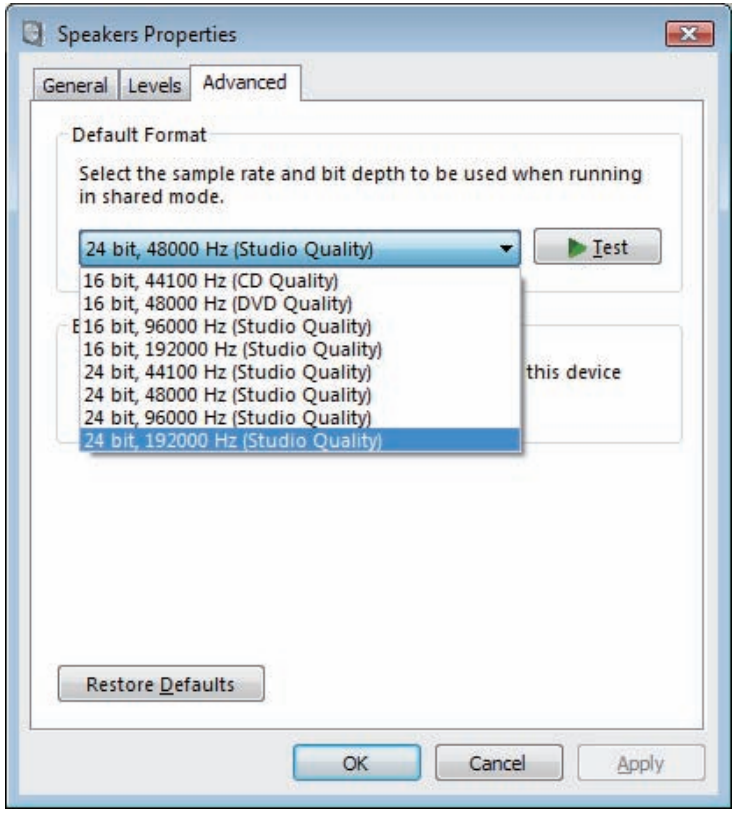
1 **Click on [Start] → [Control Panel] → [Hardware and Sound] → [Sound].**

2 **Under the [Playback] tab, for [Speakers], double click on [Pioneer USB D/A Converter] to display the Properties.**



Procedure continues.

3 **Under the [Advanced] tab, select for [Default Format] the desired output sampling rate, then click on [Apply].**


Speakers Properties
General
Levels
Advanced
Default Format
Select the sample rate and bit depth to be used when running in shared mode.
24 bit, 48000 Hz (Studio Quality)
Test
16 bit, 44100 Hz (CD Quality)
16 bit, 48000 Hz (DVD Quality)
16 bit, 96000 Hz (Studio Quality)
16 bit, 192000 Hz (Studio Quality)
24 bit, 44100 Hz (Studio Quality)
24 bit, 48000 Hz (Studio Quality)
24 bit, 96000 Hz (Studio Quality)
24 bit, 192000 Hz (Studio Quality)
this device
Restore Defaults
OK
Cancel
Apply

Procedure finished.

Troubleshooting (Windows 7)

When using Windows XP, see page 5 ; for Windows Vista, see page 7 ; for Windows 8 or Windows 8.1, see page 15.

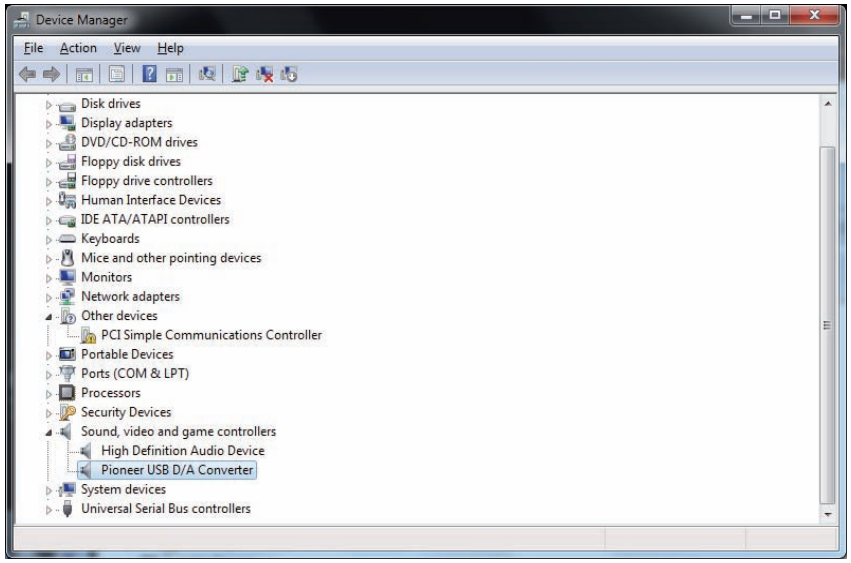
1. No sound

Do not boot your computer's music player program if the power is turned off to the device with the **USB** port, or if the **USB** port has not been selected as the input source.
Boot your computer's music playing program only after switching the input to the **USB** port.
For information about the name of inputs supported by the **USB** port, see the Operating Instructions for this device.

1 Click on [Start] → [Control Panel] → [System].

2 Under [System], click on [Device Manager].

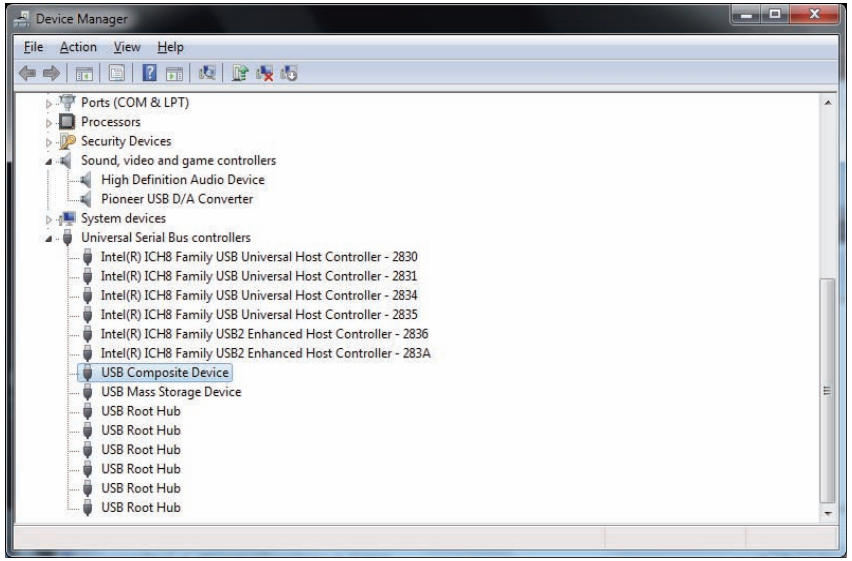
3 Click on [Sound, video and game controllers] and confirm that [Pioneer USB D/A Converter] is listed.



If the [Pioneer USB D/A Converter] does not appear, confirm that the **USB** port has been selected as input source. Then try reconnecting the cable or turning the power off and then on again; when this is done, the [Pioneer USB D/A Converter] should be recognized.

Procedure continues.

4 Click on [Universal Serial Bus controllers], and confirm that [USB Composite Device] is listed.

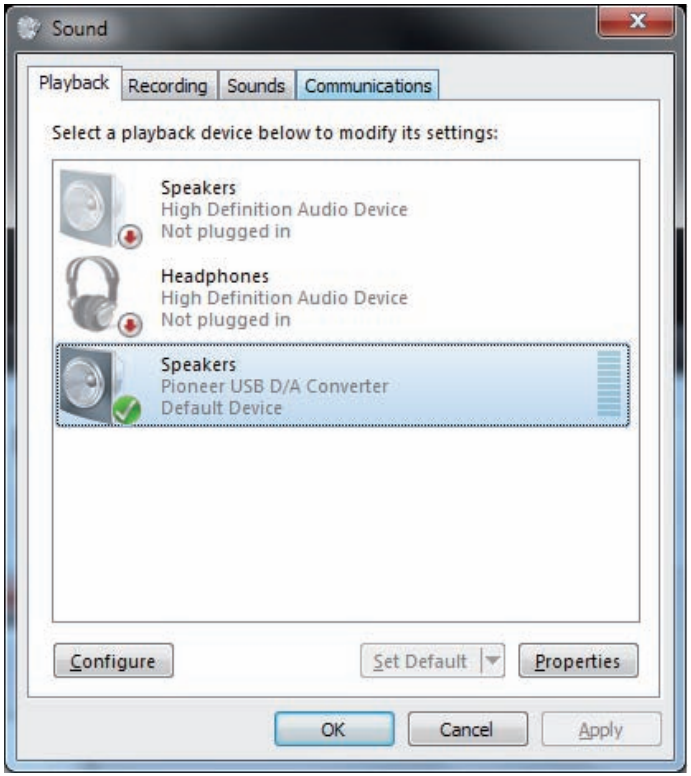

Device Manager
File Action View Help
Ports (COM & LPT)
Processors
Security Devices
Sound, video and game controllers
High Definition Audio Device
Pioneer USB D/A Converter
System devices
Universal Serial Bus controllers
Intel(R) ICH8 Family USB Universal Host Controller - 2830
Intel(R) ICH8 Family USB Universal Host Controller - 2831
Intel(R) ICH8 Family USB Universal Host Controller - 2834
Intel(R) ICH8 Family USB Universal Host Controller - 2835
Intel(R) ICH8 Family USB2 Enhanced Host Controller - 2836
Intel(R) ICH8 Family USB2 Enhanced Host Controller - 283A
USB Composite Device
USB Mass Storage Device
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub
USB Root Hub

5 Click on [Start] →[Control Panel]→ [Hardware and Sound] → [Sound].

Procedure continues.

6 Under the [Playback] tab, confirm that for [Speakers], [Pioneer USB D/A Converter] is checked as the [Default Device].

→ If another device has been selected, select [Pioneer USB D/A Converter], and click on [Set Default].

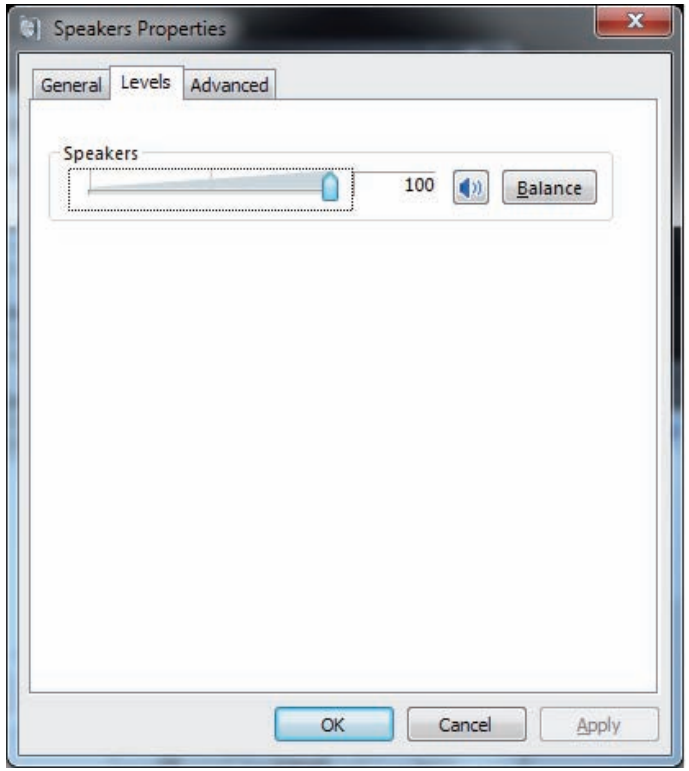


7 Double click on [Speakers] ([Pioneer USB D/A Converter]), and display its Properties.

Procedure continues.

8 Under the [Levels] tab, set the [Speakers] level to maximum.

If the Speaker Mute indicator (at the left side of the Balance button) is lighted, click it to turn it off.



9 Confirm that your media player's sound volume is set to Maximum.

In the event your media player requires an output plugin setting, confirm that [Pioneer USB D/A Converter] is selected.

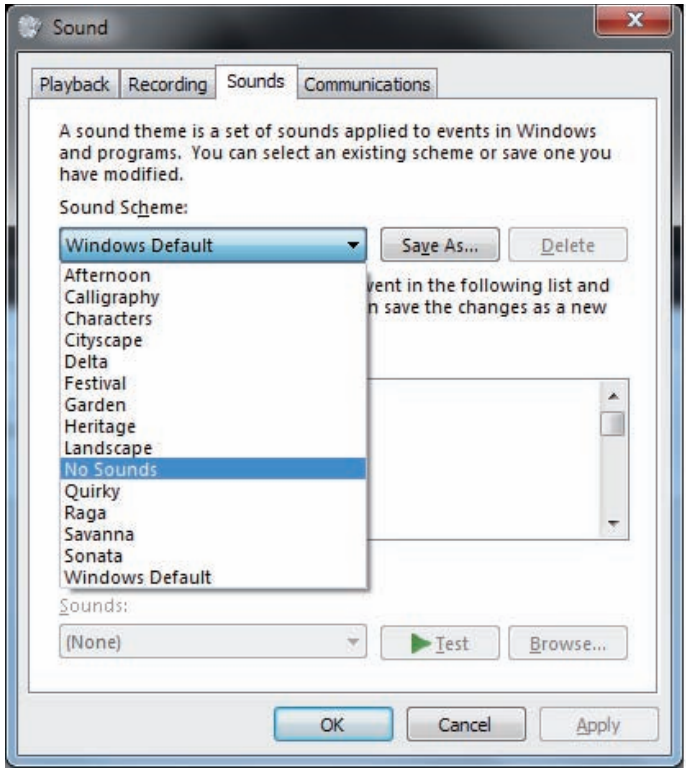
Procedure finished.

2. To disable the operating system's sound scheme

Under default OS settings, computer events may be accompanied by audio signals and beeps that are audible through the speakers attached to the device. In the event you do not wish to hear such non-music signals, follow the instructions listed below:

1 **Click [Start] → [Control Panel] → [Hardware and Sound] → [Sound].**

2 **Click on the [Sounds] tab, and for the [Sound scheme], select [No Sounds], then click on [Apply].**



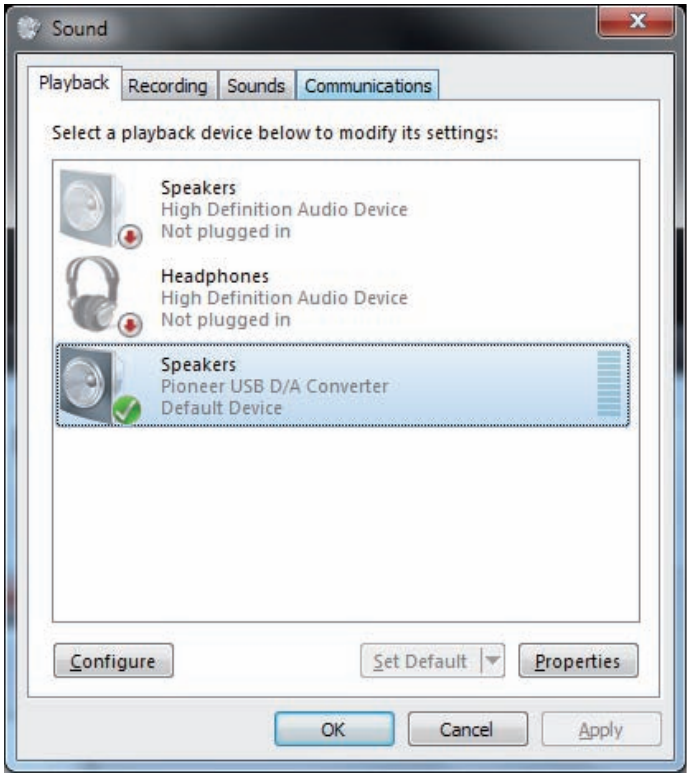
Procedure finished.

3. To set the sampling frequency for audio data output from your computer

By synchronizing the sampling frequency of playback files with the transmission sampling rate, sound can be transmitted without the need for frequency conversion.
When a high sampling frequency is set on a computer with inadequate processing capacity, audio playback may be disrupted. In this event, the bit rate and frequency should be set to lower values such as 2-channel, 24-bit, 44100 Hz.

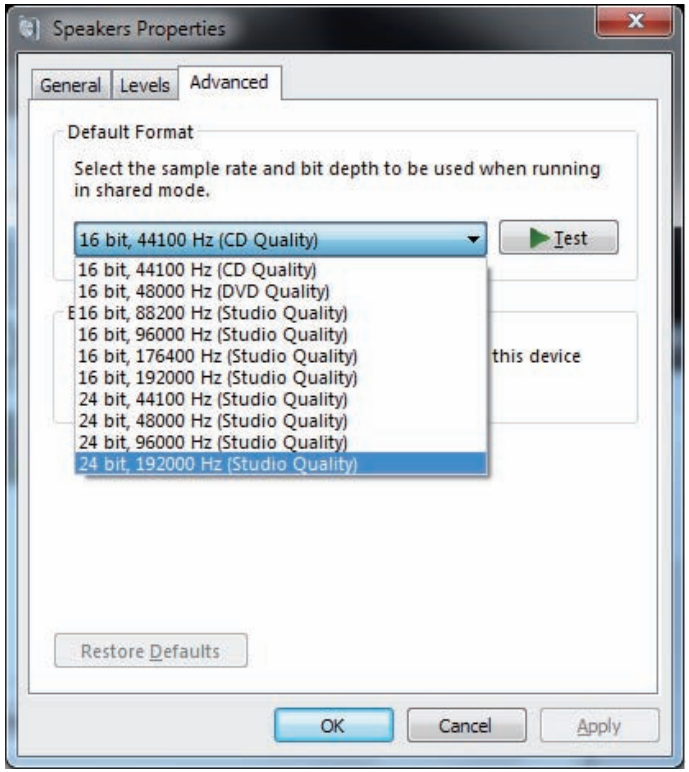
1 **Click on [Start] → [Control Panel] → [Hardware and Sound] → [Sound].**

2 **Under the [Playback] tab, for [Speakers], double click on [Pioneer USB D/A Converter] to display the Properties.**



Procedure continues.

3 **Under the [Advanced] tab, select for [Default Format] the desired output sampling rate, then click on [Apply].**


Speakers Properties
General
Levels
Advanced
Default Format
Select the sample rate and bit depth to be used when running in shared mode.
16 bit, 44100 Hz (CD Quality)
Test
16 bit, 44100 Hz (CD Quality)
16 bit, 48000 Hz (DVD Quality)
16 bit, 88200 Hz (Studio Quality)
16 bit, 96000 Hz (Studio Quality)
16 bit, 176400 Hz (Studio Quality)
16 bit, 192000 Hz (Studio Quality)
24 bit, 44100 Hz (Studio Quality)
24 bit, 48000 Hz (Studio Quality)
24 bit, 96000 Hz (Studio Quality)
24 bit, 192000 Hz (Studio Quality)
this device
Restore Defaults
OK
Cancel
Apply

Procedure finished.

Troubleshooting (Windows 8/8.1)

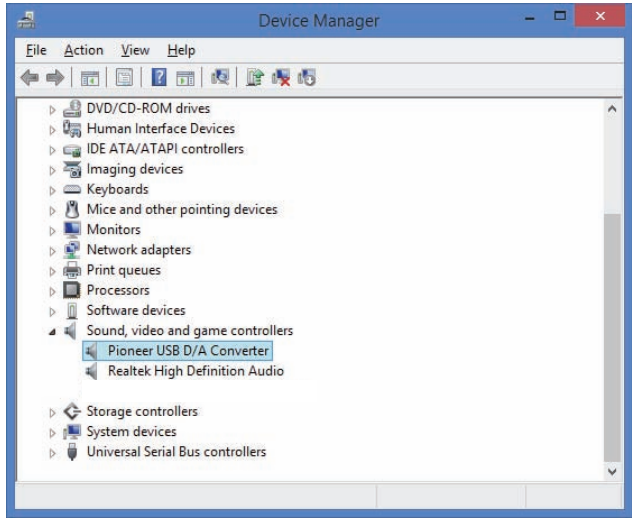
When using Windows XP, see page 5 ; for Windows Vista, see page 7 ; for Windows 7, see page 11.

1. No sound

Do not boot your computer's music player program if the power is turned off to the device with the **USB** port, or if the **USB** port has not been selected as the input source.
Boot your computer's music playing program only after switching the input to the **USB** port.
For information about the name of inputs supported by the **USB** port, see the Operating Instructions for this device.

1 Simultaneously press the [Windows] key and [X] key, then select [Device manager].

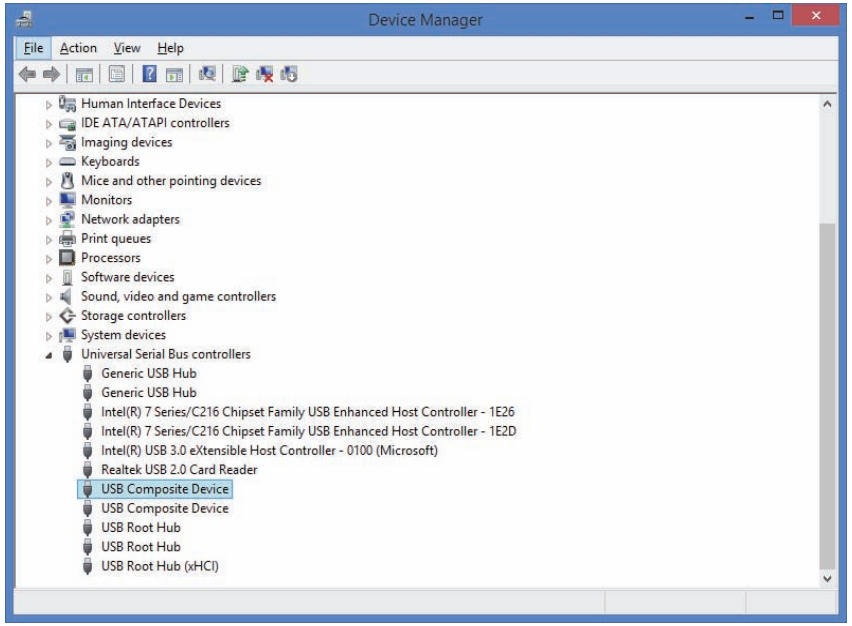
2 Click on [Sound, video and game controllers] and confirm that [Pioneer USB D/A Converter] is listed.



If the [Pioneer USB D/A Converter] does not appear, confirm that the **USB** port has been selected as input source. Then try reconnecting the cable or turning the power off and then on again; when this is done, the [Pioneer USB D/A Converter] should be recognized.

Procedure continues.

3 Click on [Universal Serial Bus controllers], and confirm that [USB Composite Device] is listed.



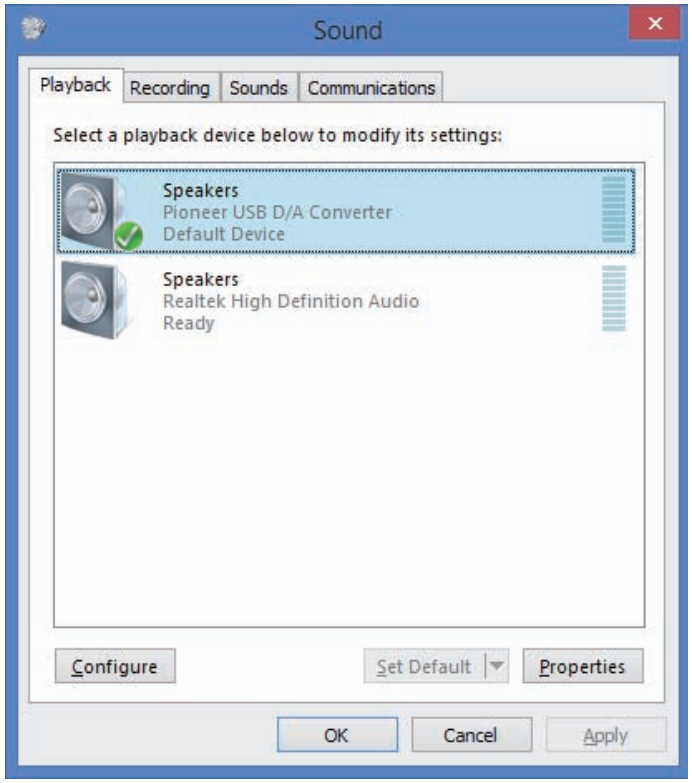
4 Simultaneously press the [Windows] key and [X] key; select [Control Panel], then click on [Hardware and sound] → [Manage audio devices].

If the menu items noted above do not appear, confirm that the Control Panel's View by item is set to "Category".

Procedure continues.

5 Under the [Playback] tab, confirm that for [Speakers], [Pioneer USB D/A Converter] is checked as the [Default Device].

→ If another device has been selected, select [Pioneer USB D/A Converter], and click on [Set Default].

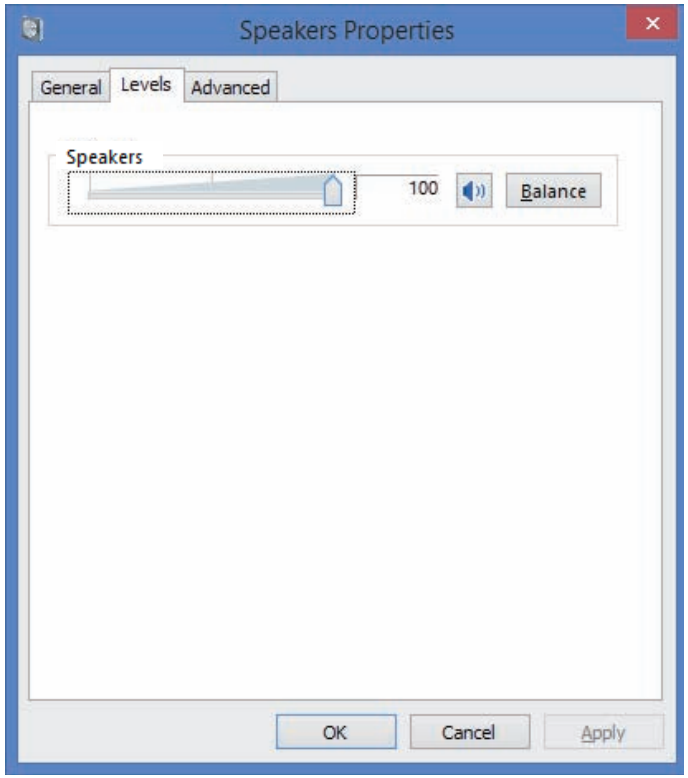


6 Double click on [Speakers] ([Pioneer USB D/A Converter]), and display its Properties.

Procedure continues.

7 Under the [Levels] tab, set the [Speakers] level to maximum.

If the Speaker Mute indicator (at the left side of the Balance button) is lighted, click it to turn it off.



8 Confirm that your media player's sound volume is set to Maximum.

In the event your media player requires an output plugin setting, confirm that [Pioneer USB D/A Converter] is selected.

Procedure finished.

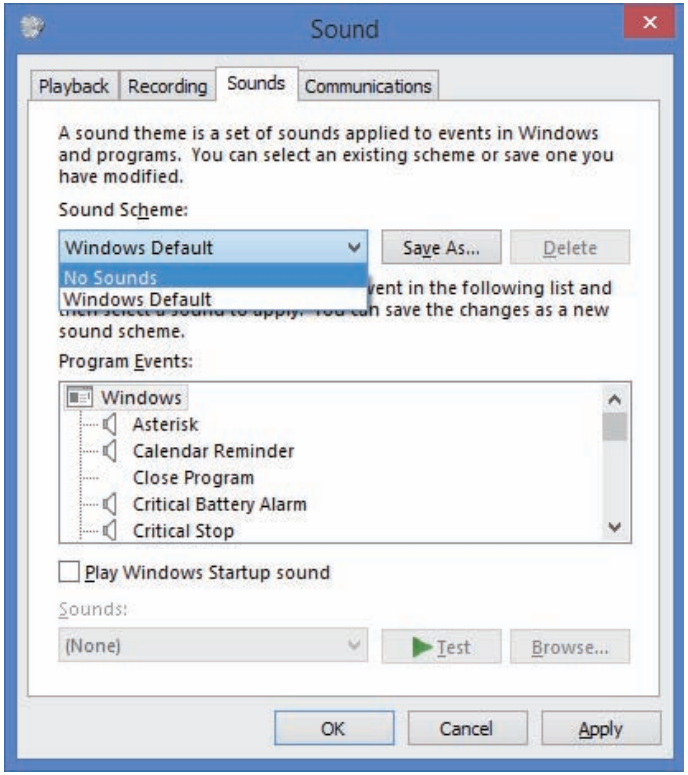
2. To disable the operating system's sound scheme

Under default OS settings, computer events may be accompanied by audio signals and beeps that are audible through the speakers attached to the device. In the event you do not wish to hear such non-music signals, follow the instructions listed below:

1 **Simultaneously press the [Windows] key and [X] key; select [Control Panel], then click on [Hardware and sound] → [Manage audio devices].**

If the menu items noted above do not appear, confirm that the Control Panel's View by item is set to "Category".

2 **Click on the [Sounds] tab, and for the [Sound scheme], select [No Sounds], then click on [Apply].**



Procedure finished.

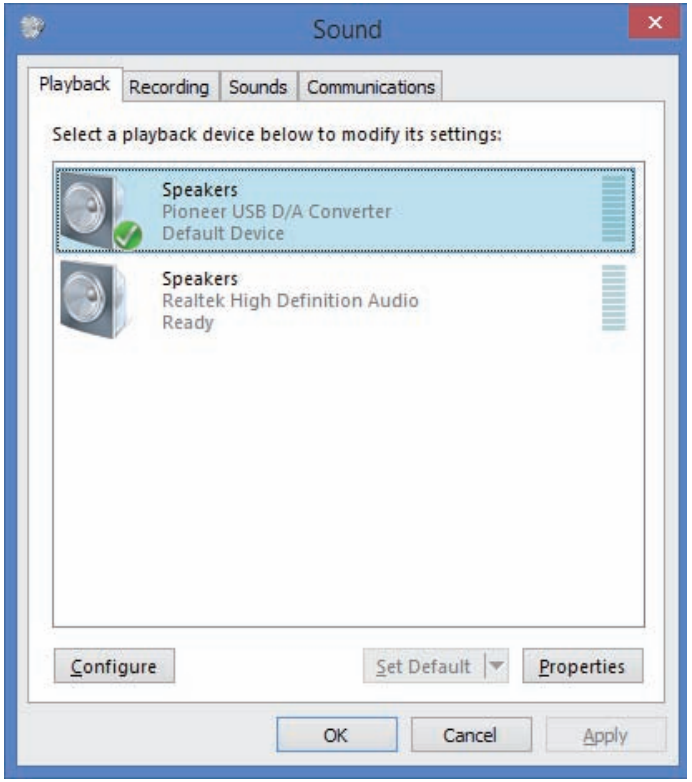
3. To set the sampling frequency for audio data output from your computer

By synchronizing the sampling frequency of playback files with the transmission sampling rate, sound can be transmitted without the need for frequency conversion.
When a high sampling frequency is set on a computer with inadequate processing capacity, audio playback may be disrupted. In this event, the bit rate and frequency should be set to lower values such as 2-channel, 24-bit, 44100 Hz.

1 **Simultaneously press the [Windows] key and [X] key; select [Control Panel], then click on [Hardware and sound] → [Manage audio devices].**

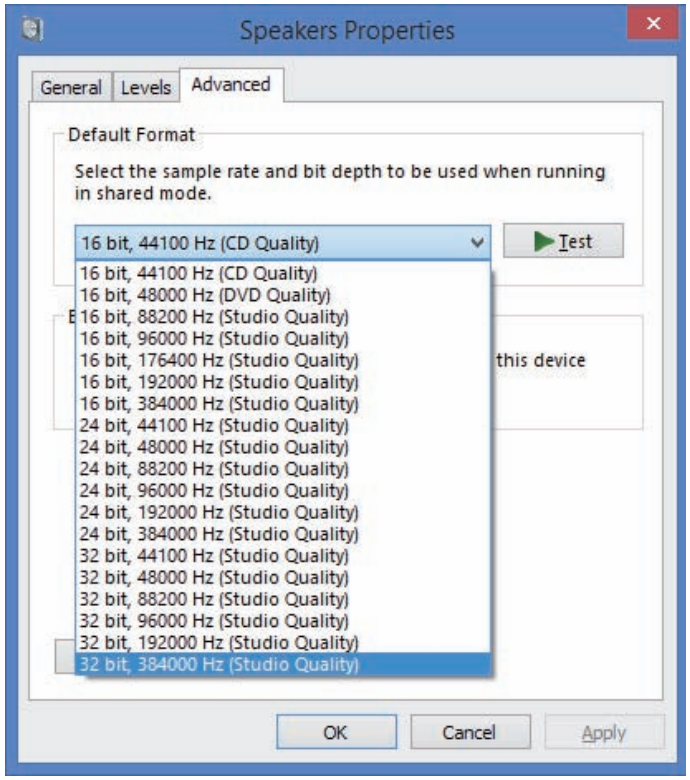
If the menu items noted above do not appear, confirm that the Control Panel's View by item is set to "Category".

2 **Under the [Playback] tab, for [Speakers], double click on [Pioneer USB D/A Converter] to display the Properties.**



Procedure continues.

3 **Under the [Advanced] tab, select for [Default Format] the desired output sampling rate, then click on [Apply].**


Speakers Properties
General
Levels
Advanced
Default Format
Select the sample rate and bit depth to be used when running in shared mode.
16 bit, 44100 Hz (CD Quality)
Test
16 bit, 44100 Hz (CD Quality)
16 bit, 48000 Hz (DVD Quality)
16 bit, 88200 Hz (Studio Quality)
16 bit, 96000 Hz (Studio Quality)
16 bit, 176400 Hz (Studio Quality)
16 bit, 192000 Hz (Studio Quality)
16 bit, 384000 Hz (Studio Quality)
24 bit, 44100 Hz (Studio Quality)
24 bit, 48000 Hz (Studio Quality)
24 bit, 88200 Hz (Studio Quality)
24 bit, 96000 Hz (Studio Quality)
24 bit, 192000 Hz (Studio Quality)
24 bit, 384000 Hz (Studio Quality)
32 bit, 44100 Hz (Studio Quality)
32 bit, 48000 Hz (Studio Quality)
32 bit, 88200 Hz (Studio Quality)
32 bit, 96000 Hz (Studio Quality)
32 bit, 192000 Hz (Studio Quality)
32 bit, 384000 Hz (Studio Quality)
this device
OK
Cancel
Apply

Procedure finished.

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